**PRTravel**

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**Introduction**

Puerto Rico is going through the worst economic crisis in its history. It owes over 70 billion dollars and experts ensure that the administration of the governor will not be able to pay the debt completely. To aid this problem tourism and social networks can contribute by working together. According to Puerto Rico Tourism Company “the tourism industry is one of the economic engines with the most potential for growth in Puerto Rico” (4). On the other hand, we have been witnesses of the great impact that social networks have had in the world. Taking these facts into consideration PRTravel will be a mobile application that will seek to encourage tourists to visit Puerto Rico’s different attractions by sharing their experiences with other users. While the tourists are having a good time they will be also contributing to the island’s economy. This social network will serve as a tool for the tourists because it facilitates the access to information of the diverse attractions in the island. This application has been chosen to be mobile so that tourists could use it while actually visiting the attractions. The technologies that are going to be used in this project will be Ionic Framework and AngularJS for the client side, Java Play for the server side, and for the database system PostgreSQL. In addition, Eclipse and Ionic Lab will be used as the programming IDEs.

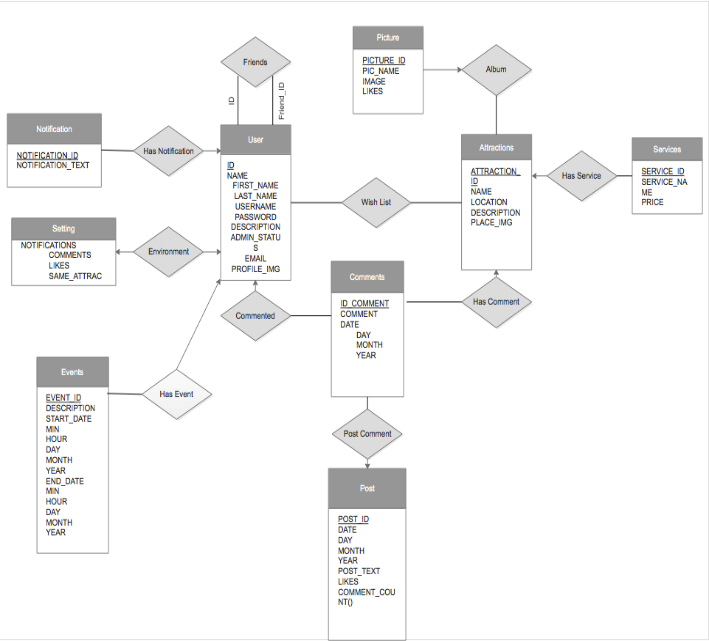
# **Client App Description**

PRTravel will be a social network for visiting different places or attractions around Puerto Rico and sharing it with other users. Users will sign up and create a profile. This application will have five main components: home page, profile page, attraction list, calendar, and notifications. The home page would include a news feed of your friends. The profile page would include the user’s personal information, a wish list of the places the user would like to go, a calendar of the places he is planning to visit, photo albums of the places he has visited, and the settings. The attraction list will be a list of different attractions around the island and the user will have the opportunity to select from this list the places he would like to visit and add it to his wish list. Here will be the services that the user could pay for in advance. For example, activities, tickets, and transportation. The calendar will include the attractions the user and his friends are planning to visit. The notifications will tell the user when somebody added him as a friend or when he has been accepted as a friend. Also, it will notify when a friend commented on his photos or planned trips. This application will be using the AngularJS and Ionic framework for the client side.

# **Server Side Description**

The server side application will be working with the logic, validation and storing of information that the application requires. In the attraction list component, the user will have the opportunity to choose from the attractions that are already predetermined. Also, in this component the users can express their opinion in relation to the attraction. This attraction list component will have a table. For the notifications component the server application will be in charge of notifying to the corresponding user the friend requests, comments or any other activity that occurs. This notification component will have its own table. At the home page the application will have a news feed which will be updated after the user refreshes the page. The information about the news feed will be stored in one table. Every user will have a profile and at that page everyone will have a wish list with the places that he wants to visit. This wish list will be a subset of the list in the attraction list component. After the user visits any attractions he could mark it and then he can upload pictures to an album that will be created automatically by the server application. The name of the album will be the same name of the attraction. Furthermore, the profile page will contain a calendar that will have the places that the user will visit per day. The profile page will have four tables. The first one will include the user's personal information. The user's wish list will be saved in another table and his personal calendar will be saved in another table also. The pictures a user uploads will be saved in another table. The friends calendar component will have all the places that the user's friends will visit. This will let the user know if a friend will visit common places and they can go together. They can also plan to visit a place if they want. This component will have a table with the information about the activities of the user’s friends. Additional tables that are going to be required are for payment services and for user’s friends. In the sign-up process the application will be storing the information of the user in a table and sending an email to confirm identity. To do this the application will use SendGrid’s API. The information about the credit cards will be asked in the sign-up process and validated too depending on what type of card it is. This server application will be using PostgreSQL, pgAdmin, IntelliJ, and Java Play.

# **E-R Diagram**



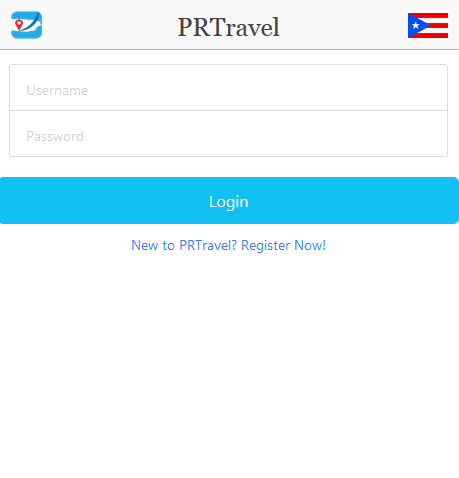
**Explanation**

User has many relationships. The first with friends which has two roles the labels are the id and friend id. It is a many to many relationship. A user is associated with several friends and a friend is a user at the same time. A notification has a many to one relationship with user. Notifications is associated with at most one user via has notification and a user is associated with several (including 0) notifications. A user can have many notifications. User has a one to one relationship with settings. A user is associated with at most one settings option and a setting is associated with only one user. The settings, for example to change email and password, can be done by at most one user. A comment has a many to one relationship with user. A comment is associated with at most one user since all the comments are going to the user but a user is associated with several (including 0) comments. A user can post as many comments as he wants.

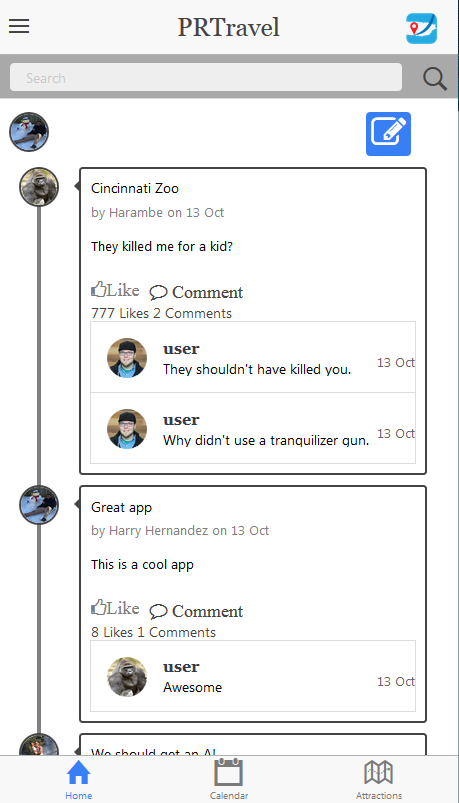
An event has a many to one relationship with user. An event is associated with at most one user but a user can post as many events as he wants in the calendar. User has a many to many relationship with attractions since a user is associated with several attractions and attractions is associated with many users. Comments and posts have a many to one relationship. You can post as many comments as you like via post comment. A comment is associated with at most one post. Comments and attractions have a many to one relationship. An attraction can have as many comments as it wants and a comment is associated with at most one attraction. Service has a many to one relationship with attractions via has service since an attraction can have as many services as it can hold but a service is associated with at most one attraction.

An attraction can has as many pictures as it wants and a picture is associated with at most one attraction. This is then a many to one relationship.

# **Client-Side Screen Shots**



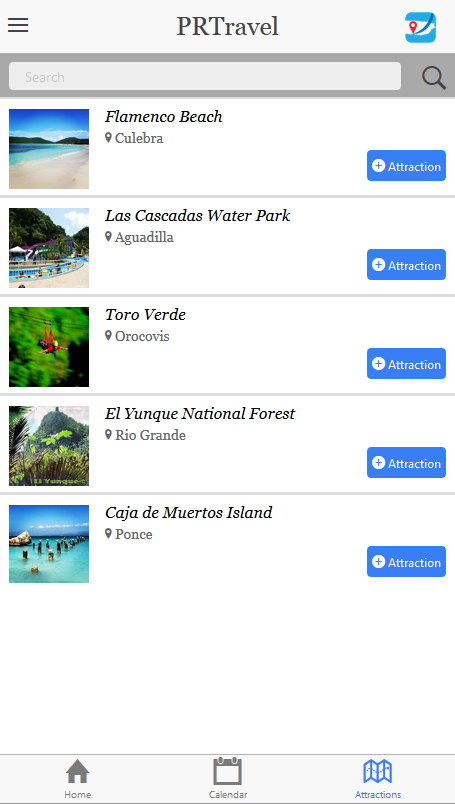
**Figure 1:** Login page.



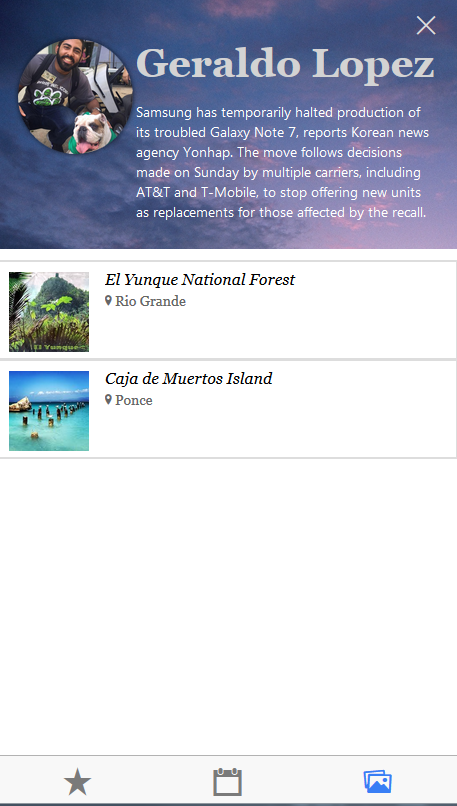
**Figure 2:** Newsfeed tab.



**Figure 3:** Calendar tab.



**Figure 4:** Attractions tab.



**Figure 5:** Profile page.

**SQL SCRIPT**

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-- PostgreSQL database dump

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-- Started on 2016-11-6 05:51:45 AST

SET statement\_timeout = 0;

SET client\_encoding = 'UTF8';

SET standard\_conforming\_strings = off;

SET check\_function\_bodies = false;

SET client\_min\_messages = warning;

SET escape\_string\_warning = off;

SET search\_path = public, pg\_catalog;

SET default\_with\_oids = false;

CREATE TABLE users

(

uid integer NOT NULL,

ufirst character(8),

ulast character varying(40),

uusername character varying(40),

upassword character varying(40),

udescription character varying(40),

adminstatus boolean NOT NULL,

uemail character varying(50),

imageurl character varying (50),

ucreditcard integer NOT NULL,

ubilling character varying (100),

ucvc integer NOT NULL,

ucreditname character varying (100),

ucredittype character varying (100)

);

CREATE TABLE events (

uid integer NOT NULL,

eid integer NOT NULL,

title character varying(100),

start character varying(100),

end1 character varying (100),

allDay boolean,

aid integer NOT NULL

);

CREATE TABLE comments (

cid integer NOT NULL,

uid integer NOT NULL,

ctext character varying (100),

cdate character varying (40),

ctime character varying (40),

pid integer,

aid integer,

picid integer

);

CREATE TABLE posts (

uid integer NOT NULL,

pid integer NOT NULL,

ptext character varying (100),

ptitle character varying (100),

pdate character varying (40),

ptime character varying (40),

plikes integer,

pcomments\_count integer,

pauthor integer NOT NULL

);

CREATE TABLE attractions(

aid integer NOT NULL,

aname character varying (40),

alocation character varying (40),

adescription character varying (1000),

aimageurl character varying (100)

);

CREATE TABLE services(

aid integer NOT NULL,

sid integer NOT NULL,

sname character varying (40),

price integer NOT NULL

);

CREATE TABLE albums(

albumid integer NOT NULL,

uid integer NOT NULL,

aid integer NOT NULL,

albumname character varying (40)

);

CREATE TABLE notifications (

nid integer NOT NULL,

uid integer NOT NULL,

ntext character varying(100),

cid integer,

lid integer,

authorid integer NOT NULL

);

CREATE TABLE wishlist (

uid integer NOT NULL,

aid integer NOT NULL

);

CREATE TABLE friends(

randomid integer NOT NULL,

uid integer NOT NULL,

fid integer NOT NULL

);

CREATE TABLE picture(

aid integer NOT NULL,

picid integer NOT NULL,

picname character varying (100),

piclikes integer,

piccomments integer,

pimageurl character varying (100),

albumid integer NOT NULL

);

INSERT INTO users VALUES (1, 'Geraldo', 'Lopez', 'geraldo29', 'password','awesome description', true, 'geraldo.lopez1@upr.edu','http://localhost:9000/images/geraldo.jpg',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (2, 'Harry', 'Hernandez', 'harry123', 'password','awesome description', true, 'harry.hernandez1@upr.edu','http://localhost:9000/images/harry.jpg',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (3, 'Abdiel', 'Vega', 'abdiel123', 'password','awesome description', true, 'abdiel.vega1@upr.edu','http://localhost:9000/images/abdiel.jpg',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (4, 'Harambe', 'Gorilla', 'harambelives', 'password','awesome description', false, 'harambe.lives@upr.edu','http://localhost:9000/images/harambe.jpg',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (5, 'Adam', 'Ritter', 'adam123', 'password','awesome description', false, 'adam123@upr.edu','http://localhost:9000/images/adam.jpg',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (6, 'Ben', 'Young', 'ben123', 'password','awesome description', false, 'ben123@upr.edu','http://localhost:9000/images/ben.png',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (7, 'Max', 'Beatty', 'max123', 'password','awesome description', false, 'max123@upr.edu','http://localhost:9000/images/max.png',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (8, 'Mike', 'Smith', 'mike123', 'password','awesome description', false, 'mike123@upr.edu','http://localhost:9000/images/mike.png',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO users VALUES (9, 'Perry', 'Platipus', 'perry123', 'password','awesome description', false, 'perry123@upr.edu','http://localhost:9000/images/perry.png',123456789,'mayaguez terrace 00961', 224, 'Geraldo G Lopez', 'visa');

INSERT INTO friends VALUES (1,1,1);

INSERT INTO friends VALUES (2,1,2);

INSERT INTO friends VALUES (3,1,3);

INSERT INTO friends VALUES (4,1,4);

INSERT INTO friends VALUES (5,2,1);

INSERT INTO friends VALUES (6,2,2);

INSERT INTO friends VALUES (7,2,3);

INSERT INTO friends VALUES (8,2,4);

INSERT INTO friends VALUES (9,3,1);

INSERT INTO friends VALUES (10,3,2);

INSERT INTO friends VALUES (11,3,3);

INSERT INTO friends VALUES (12,3,4);

INSERT INTO friends VALUES (13,4,1);

INSERT INTO friends VALUES (14,4,2);

INSERT INTO friends VALUES (15,4,3);

INSERT INTO friends VALUES (16,4,4);

INSERT INTO attractions VALUES (1,'Cueva Ventana', 'Arecibo', 'Maravillosa cueva con una vista brutal','http://localhost:9000/images/cuevaVentana.jpg');

INSERT INTO attractions VALUES (2,'Las Cascadas', 'Aguadilla', 'Las Cascadas water park is currently known as the biggest water park in the caribbean. Recently renovated, it has several attractions to both children and adults. Its attractions include the "Crazy River" which simulates rapids river, and the Wave Pools which simulate the waves of a beach. For children there is the Kiddy Pool area, and for the lovers of speed and adventure there is the Speed Slide, "The Bomb", and the Water Tunnel. Other attractions available','http://localhost:9000/images/cascadas.jpg');

INSERT INTO attractions VALUES (3,'El Morro', 'San Juan', 'Historic fort site','http://localhost:9000/images/morro.jpg');

INSERT INTO attractions VALUES (4,'El Yunque', 'Rio Grande', 'The El Yunque National Forest is the only tropical rain forest in the national forest system. At nearly 29,000 acres, it is one of the smallest in size, yet one of the most biologically diverse of the national forests hosting hundreds of animal and plant species, some of which are found only here.','http://localhost:9000/images/yunque.jpg');

INSERT INTO attractions VALUES (5,'Flamenco Beach', 'Culebra', 'Flamenco Beach is a public beach on the Caribbean island of Culebra. It is known for its shallow turquoise waters, white sand, swimming areas, and diving sites. It stretches for a mile around a sheltered, horseshoe-shaped bay. Playa Flamenco is a popular beach destination for both Culebra and Puerto Rico. In March 2014, Flamenco beach was ranked 3rd best beach in the world with a TripAdvisor Travelers Choice Award.','http://localhost:9000/images/flamenco.jpg');

INSERT INTO attractions VALUES (6,'Media Luna Beach', 'Vieques', 'Awesome Beach','http://localhost:9000/images/viequesbeach.jpg');

INSERT INTO attractions VALUES (7,'Crash Boat Beach', 'Aguadilla', 'Awesome Beach','http://localhost:9000/images/crashboat.jpg');

INSERT INTO attractions VALUES (8,'Toro Verde', 'Orocovis', 'Zipline','http://localhost:9000/images/toroverde.jpg');

INSERT INTO attractions VALUES (9,'Parque de las Ciencias', 'Bayamon', 'Great Science Park','http://localhost:9000/images/ciencias.jpg');

INSERT INTO attractions VALUES (10,'Gozalandia', 'San Sebastian', 'Great waterfall to go with friends','http://localhost:9000/images/goza.jpg');

INSERT INTO attractions VALUES (11,'Salto Doña Juana', 'Orocovis', 'Un pequeno rio','http://localhost:9000/images/juana.jpg');

INSERT INTO attractions VALUES (12,'Bosque Seco', 'Guanica', 'Dry Forest','http://localhost:9000/images/bosqueseco.jpg');

INSERT INTO attractions VALUES (13,'Parque De Bombas', 'Ponce', 'Terroist park','http://localhost:9000/images/bombas.jpg');

INSERT INTO attractions VALUES (14,'La Guancha', 'Ponce', 'Nice Boardwalk','http://localhost:9000/images/guancha.jpg');

INSERT INTO attractions VALUES (15,'La Parguera', 'Lajas', 'Nice family place','http://localhost:9000/images/parguera.jpg');

INSERT INTO attractions VALUES (16,'Cuevas de Camuy', 'Camuy', 'Lots of bats','http://localhost:9000/images/cuevascamuy.jpg');

INSERT INTO attractions VALUES (17,'Bio Bay', 'Fajardo', 'Green water woohoo','http://localhost:9000/images/biobay.jpg');

INSERT INTO attractions VALUES (18,'Kioskos de Luquillo', 'Luquillo', 'Comete un coco y una alcapuria','http://localhost:9000/images/kioskos.jpg');

INSERT INTO attractions VALUES (19,'Giligans Island', 'Guanica', 'Overated','http://localhost:9000/images/giligans.jpg');

INSERT INTO attractions VALUES (20,'Isla de Mona', 'Mayaguez', 'No, there are no monkeys','http://localhost:9000/images/mona.jpg');

INSERT INTO attractions VALUES (21,'Caja De Muerto', 'Ponce', 'No dead bodies here :(','http://localhost:9000/images/muerto.jpg');

INSERT INTO attractions VALUES (22,'Palomino Island', 'Fajardo', 'Private Island pa riquitillos','http://localhost:9000/images/palomino.jpg');

INSERT INTO attractions VALUES (23,'Casa Pueblo', 'Adjuntas', 'A house','http://localhost:9000/images/casapueblo.jpg');

INSERT INTO attractions VALUES (24,'Mar Chiquita', 'Manati', 'Awesome Beach','http://localhost:9000/images/chiquita.jpg');

INSERT INTO attractions VALUES (25,'Zoologico', 'Mayaguez', 'A zoo where animals get mistreated and dont get fed.','http://localhost:9000/images/zoo.jpg');

INSERT INTO attractions VALUES (26,'Cueva del Indio', 'Arecibo', 'Awesome caves','http://localhost:9000/images/cuevadelindio.jpg');

INSERT INTO attractions VALUES (27,'Museo de Artes', 'San Juan', 'Nice boring museum','http://localhost:9000/images/museo.jpg');

INSERT INTO attractions VALUES (28,'Playa Sucia', 'Cabo Rojo', 'Awesome beach and has a lighthouse too','http://localhost:9000/images/playasucia.jpg');

INSERT INTO attractions VALUES (29,'Castillo Seralles', 'Ponce', 'A Castle','http://localhost:9000/images/castillo.jpg');

INSERT INTO attractions VALUES (30,'Ice Skating Arena', 'Aguadilla', 'Want to fall? Come here','http://localhost:9000/images/iceskating.jpg');

INSERT INTO attractions VALUES (31,'Guavate', 'Cayey', 'Eat Pork, but not your wife','http://localhost:9000/images/guavate.jpg');

INSERT INTO attractions VALUES (32,'Icacos', 'Fajardo', 'Small but worth it','http://localhost:9000/images/icacos.jpg');

INSERT INTO attractions VALUES (33,'Observatorio de Arecibo', 'Arecibo', 'Big telescope with a ball.','http://localhost:9000/images/observatorio.jpg');

INSERT INTO attractions VALUES (34,'Bacardi Tour', 'Catano', 'Make sure to get the free drinks','http://localhost:9000/images/bacardi.jpg');

INSERT INTO attractions VALUES (35, 'Jobos Beach', 'Isabela', 'Awesome Beach','http://localhost:9000/images/jobos.jpg');

INSERT INTO attractions VALUES (36,'La Perla', 'San Juan', 'Make sure you are not a cop','http://localhost:9000/images/laperla.jpg');

INSERT INTO attractions VALUES (37,'Guajataca', 'Quebradillas', 'Camp here','http://localhost:9000/images/guajataca.jpg');

INSERT INTO attractions VALUES (38,'Las Croabas', 'Fajardo', 'Eat an arepa','http://localhost:9000/images/croabas.jpg');

INSERT INTO attractions VALUES (39,'Baños de Coamo', 'Coamo', 'Thermal Baths','http://localhost:9000/images/banos.jpg');

INSERT INTO attractions VALUES (40,'Bahia Urbana', 'San Juan', ' Chill Here','http://localhost:9000/images/bahiaurbana.jpg');

INSERT INTO attractions VALUES (41,'Portacoeli Church', 'San German', 'Another church','http://localhost:9000/images/portacoeli.jpg');

INSERT INTO attractions VALUES (42,'Ocean Park', 'San Juan', 'Awesome beach next to Lloren Torres, bring a gun.','http://localhost:9000/images/ocean.jpg');

INSERT INTO attractions VALUES (43,'Las Cabezas de San Juan', 'Fajardo', 'Natural reserve.','http://localhost:9000/images/cabezas.jpg');

INSERT INTO attractions VALUES (44,'Tibes Indigenous Ceremonial Center', 'Ponce', 'Tainos (naked women)','http://localhost:9000/images/tibes.jpg');

INSERT INTO attractions VALUES (45,'Lago Dos Bocas', 'Utuado', 'Fake Lake.','http://localhost:9000/images/dosbocas.jpg');

INSERT INTO events VALUES (1,1,'Geraldo is going to el Yunque', '2016-11-7 10:20:00', '2016-11-7 11:20:00',false,3);

INSERT INTO events VALUES (2,2, 'Harry is going to Cueva Ventana', '2016-11-7 10:20:00', '2016-11-7 11:20:00',false,1);

INSERT INTO events VALUES (3,3, 'Abdiel is going to El Morro', '2016-11-7 10:20:00', '2016-11-7 11:20:00',false,4);

INSERT INTO events VALUES (4,4, 'Harambe is going to las Cascadas', '2016-11-7 10:20:00', '2016-11-7 11:20:00',false,2);

INSERT INTO albums VALUES (1,1,4,'El Yunque');

INSERT INTO albums VALUES (2,1,3,'El Morro');

INSERT INTO albums VALUES (3,1,1,'Cueva Ventana');

INSERT INTO albums VALUES (4,1,2,'Las Cascadas');

INSERT INTO wishlist VALUES (1,1);

INSERT INTO wishlist VALUES (1,2);

INSERT INTO wishlist VALUES (1,3);

INSERT INTO wishlist VALUES (1,4);

INSERT INTO wishlist VALUES (2,1);

INSERT INTO wishlist VALUES (2,2);

INSERT INTO wishlist VALUES (2,3);

INSERT INTO wishlist VALUES (2,4);

INSERT INTO wishlist VALUES (3,1);

INSERT INTO wishlist VALUES (3,2);

INSERT INTO wishlist VALUES (3,3);

INSERT INTO wishlist VALUES (3,4);

INSERT INTO wishlist VALUES (4,1);

INSERT INTO wishlist VALUES (4,2);

INSERT INTO wishlist VALUES (4,3);

INSERT INTO wishlist VALUES (4,4);

INSERT INTO services VALUES (1,1,'Cueva Ventana Entrance',12);

INSERT INTO services VALUES (2,2,'Las Cascadas Entrance',16);

INSERT INTO services VALUES (4,3,'El Yunque Tour',14);

INSERT INTO services VALUES (3,4,'El Morro Entrance',6);

INSERT INTO services VALUES (3,5,'El Morro Tour',12);

INSERT INTO services VALUES (5,6,'Culebra Ferry Tickets',4);

INSERT INTO posts VALUES (1,1, 'El salto de Dona Juana was scary', 'title', '2016-11-18', '07:30 am',40,3,2);

INSERT INTO posts VALUES (1,2, 'Crash Boat was awesome', 'title', '2016-12-10', '09:30 pm',10,8,4);

INSERT INTO posts VALUES (1,3, 'PortaCoeli was one more church', 'title', '2016-11-18', '07:30 am',40,3,5);

INSERT INTO posts VALUES (1,4, 'Tibes Ceremonial Park was fun', 'title', '2016-12-10', '09:30 pm',10,8,6);

INSERT INTO posts VALUES (1,5, 'El yunque is great', 'title', '2016-11-18', '07:30 am',40,3,7);

INSERT INTO posts VALUES (1,6, 'Culebra was a pain to get to ', 'title', '2016-12-10', '09:30 pm',10,8,1);

INSERT INTO posts VALUES (1,7, 'El morro was historic', 'title', '2016-11-18', '07:30 am',40,3,2);

INSERT INTO posts VALUES (1,8, 'Vieques is better than Culebra', 'title', '2016-12-10', '09:30 pm',10,8,2);

INSERT INTO posts VALUES (1,9, 'Las cascadas was fun', 'title', '2016-11-18', '07:30 am',40,3,2);

INSERT INTO posts VALUES (1,10, 'El parque de las ciencias estuvo interesante', 'title', '2016-12-10', '09:30 pm',10,8,2);

INSERT INTO notifications VALUES (1,1, 'Harry commented on your photo',1,null,2);

INSERT INTO notifications VALUES (2,2, 'Geraldo liked your post.',null,1,1);

INSERT INTO notifications VALUES (3,1, 'Harambe commented on an attraction',3,null,4);

INSERT INTO notifications VALUES (4,1, 'Abdiel liked your photo',null,2,3);

INSERT INTO picture VALUES (1,1,'Pasandola brutal en cueva ventana',12,4,'http://localhost:9000/images/pasandolabrutal.jpg',3);

INSERT INTO picture VALUES (2,2,'Tirandome por la chorrera',18,2,'http://localhost:9000/images/chorrera.jpg',4);

INSERT INTO picture VALUES (3,3,'Las famosas garritas',12,4,'http://localhost:9000/images/garita.jpg',2);

INSERT INTO picture VALUES (4,4,'La mina',12,4,'http://localhost:9000/images/mina.jpg',1);

INSERT INTO comments VALUES (1, 2,'Awesome photos', '2016-11-18', '07:30 am',null,null,1);

INSERT INTO comments VALUES (2, 2, 'Great adventure', '2016-11-18', '07:30 am',1);

INSERT INTO comments VALUES (3, 1, 'This attraction was awesome', '2016-11-23', '07:30 am',null,1);

INSERT INTO comments VALUES (4, 4, 'Awesome', '2016-11-18', '07:30 am',null,null,1);

INSERT INTO comments VALUES (5, 2, 'Nice attraction!', '2016-11-03', '07:30 am',null,1);

INSERT INTO comments VALUES (6, 3, 'Had a great time.', '2016-08-18', '07:30 am',null,1);

INSERT INTO comments VALUES (7, 3, 'I wanna go again!', '2016-11-10', '07:30 am',null,2);

INSERT INTO comments VALUES (8, 2, 'Beautiful place', '2016-01-18', '07:30 am',null,2);

INSERT INTO comments VALUES (9, 1, 'Pretty awesome!', '2015-11-18', '07:30 am',null,2);

INSERT INTO comments VALUES (10, 4, 'I wanna go again!', '2016-02-07', '07:30 am',null,3);

INSERT INTO comments VALUES (11, 2, 'Beautiful place', '2016-04-01', '07:30 am',null,3);

INSERT INTO comments VALUES (12, 3, 'Pretty awesome!', '2016-09-16', '07:30 am',null,3);

INSERT INTO comments VALUES (13, 3, 'This attraction was awesome', '2013-1-18', '07:30 am',null,4);

INSERT INTO comments VALUES (14, 2, 'Nice attraction!', '2016-07-26', '07:30 am',null,4);

INSERT INTO comments VALUES (15, 4, 'Had a great time.', '2016-03-07', '07:30 am',null,4);

INSERT INTO comments VALUES (16, 1, 'Nice attraction!', '2016-05-19', '07:30 am',null,5);

INSERT INTO comments VALUES (17, 3, 'I wanna go again!', '2016-09-14', '07:30 am',null,5);

INSERT INTO comments VALUES (18, 2, 'Nice attraction!', '2016-08-12', '07:30 am',null,5);

INSERT INTO comments VALUES (19, 2,'Awesome photos', '2016-11-18', '07:30 am',10,null,1);

INSERT INTO comments VALUES (20, 3, 'Great adventure', '2016-11-18', '07:30 am',10);

INSERT INTO comments VALUES (21, 2,'Awesome photos', '2016-11-18', '07:30 am',10,null,2);

INSERT INTO comments VALUES (22, 4, 'Great adventure', '2016-11-18', '07:30 am',10);

INSERT INTO comments VALUES (23, 6,'Awesome photos', '2016-11-18', '07:30 am',10,null,2);

INSERT INTO comments VALUES (24, 2, 'Great adventure', '2016-11-18', '07:30 am',10);

INSERT INTO comments VALUES (25, 2,'Awesome photos', '2016-11-18', '07:30 am',10,null,1);

INSERT INTO comments VALUES (26, 2, 'Great adventure', '2016-11-18', '07:30 am',10);

INSERT INTO comments VALUES (27, 2,'Awesome photos', '2016-11-18', '07:30 am',10,null,1);

INSERT INTO comments VALUES (28, 2, 'Great adventure', '2016-11-18', '07:30 am',10);

INSERT INTO comments VALUES (29, 2,'Awesome photos', '2016-11-18', '07:30 am',10,null,1);

INSERT INTO comments VALUES (30, 2, 'Great adventure', '2016-11-18', '07:30 am',10);

ALTER TABLE ONLY users

ADD CONSTRAINT users\_uusername\_key UNIQUE (uusername);

ALTER TABLE ONLY users

ADD CONSTRAINT users\_uemail\_key UNIQUE (uemail);

ALTER TABLE ONLY users

ADD CONSTRAINT users\_pkey PRIMARY KEY (uid);

ALTER TABLE ONLY attractions

ADD CONSTRAINT attractions\_pkey PRIMARY KEY (aid);

ALTER TABLE ONLY posts

ADD CONSTRAINT posts\_pkey PRIMARY KEY (pid);

ALTER TABLE ONLY posts

ADD CONSTRAINT posts\_uid\_fkey FOREIGN KEY (uid) REFERENCES users(uid);

ALTER TABLE ONLY albums

ADD CONSTRAINT albums\_pkey PRIMARY KEY (albumid);

ALTER TABLE ONLY albums

ADD CONSTRAINT albums\_aid\_fkey FOREIGN KEY (aid) REFERENCES attractions(aid);

ALTER TABLE ONLY albums

ADD CONSTRAINT albums\_uid\_fkey FOREIGN KEY (uid) REFERENCES users(uid);

ALTER TABLE ONLY picture

ADD CONSTRAINT picture\_pkey PRIMARY KEY (picid);

ALTER TABLE ONLY picture

ADD CONSTRAINT picture\_aid\_fkey FOREIGN KEY (aid) REFERENCES attractions(aid);

ALTER TABLE ONLY picture

ADD CONSTRAINT picture\_albumid\_fkey FOREIGN KEY (albumid) REFERENCES albums(albumid);

ALTER TABLE ONLY comments

ADD CONSTRAINT comments\_pkey PRIMARY KEY (cid);

ALTER TABLE ONLY comments

ADD CONSTRAINT comments\_pid\_fkey FOREIGN KEY (pid) REFERENCES posts(pid);

ALTER TABLE ONLY comments

ADD CONSTRAINT comments\_aid\_fkey FOREIGN KEY (aid) REFERENCES attractions(aid);

ALTER TABLE ONLY comments

ADD CONSTRAINT comments\_picid\_fkey FOREIGN KEY (picid) REFERENCES picture(picid);

ALTER TABLE ONLY notifications

ADD CONSTRAINT notifications\_pkey PRIMARY KEY (nid);

ALTER TABLE ONLY notifications

ADD CONSTRAINT notifications\_uid\_fkey FOREIGN KEY (uid) REFERENCES users(uid);

ALTER TABLE ONLY notifications

ADD CONSTRAINT notifications\_cid\_fkey FOREIGN KEY (cid) REFERENCES comments(cid);

ALTER TABLE ONLY notifications

ADD CONSTRAINT notifications\_authorid\_fkey FOREIGN KEY (authorid) REFERENCES users(uid);

ALTER TABLE ONLY events

ADD CONSTRAINT events\_pkey PRIMARY KEY (eid);

ALTER TABLE ONLY events

ADD CONSTRAINT events\_uid\_fkey FOREIGN KEY (uid) REFERENCES users(uid);

ALTER TABLE ONLY events

ADD CONSTRAINT events\_aid\_fkey FOREIGN KEY (aid) REFERENCES attractions(aid);

ALTER TABLE ONLY services

ADD CONSTRAINT services\_pkey PRIMARY KEY (sid);

ALTER TABLE ONLY services

ADD CONSTRAINT services\_aid\_fkey FOREIGN KEY (aid) REFERENCES attractions(aid);

ALTER TABLE ONLY friends

ADD CONSTRAINT friends\_pkey PRIMARY KEY (randomid);

ALTER TABLE ONLY friends

ADD CONSTRAINT friends\_uid\_fkey FOREIGN KEY (uid) REFERENCES users(uid);

ALTER TABLE ONLY friends

ADD CONSTRAINT friends\_fid\_fkey FOREIGN KEY (fid) REFERENCES users(uid);

ALTER TABLE ONLY wishlist

ADD CONSTRAINT wishlist\_uid\_fkey FOREIGN KEY (uid) REFERENCES users(uid);

ALTER TABLE ONLY wishlist

ADD CONSTRAINT wishlist\_aid\_fkey FOREIGN KEY (aid) REFERENCES attractions(aid);

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